

IN THE CLAIMS

1. A scanner module for use in drug delivery, said module comprising a housing; a detector module coupled to said housing; a storage device coupled to said housing for storing information received from said detector module; said housing adapted to releasably attach thereto a syringe in operative association with said detector module, said syringe including a moveable plunger for administration of a drug therefrom and including first information provided in association therewith, whereby movement of said syringe relative to said detector module causes said detector module to identify said first information for storage in said storage device and movement of said plunger causes said detector module to determine the quantity of drug delivery for storage in said storage device; said housing adapted to releasably attach thereto a port cradle in operative association with said detector module, said port cradle coupled to an injection port and having second information provided in association therewith, whereby movement of said port cradle relative to said detector module causes said detector module to identify said second information for storage in said storage device.

2. The module of claim 1, further including a microprocessor in operative association with said detector module and said storage device.

3. The module of claim 2, further including a transceiver in operative association with said microprocessor for transmitting said first and second information to a remote location.

4. The module of claim 2, further including a modem in operative association with said microprocessor for

transmitting said first and second information to a remote location.

5. The module of claim 2, further including a personal digital assistant in operative association with said detector module for receiving said first and second information.

6. The module of claim 1, wherein said first information comprises drug data and said second information comprises patient data.

7. The module of claim 1, wherein said detector module comprises a pair of detectors.

8. The module of claim 1, wherein said detector module comprise a photo sensing electronic detector and a fiberoptic array.

9. The module of claim 1, wherein said housing includes a slotted opening adapted for releasably attaching said port cradle to said housing in sliding relationship.

10. The module of claim 1, wherein said housing includes a slotted opening adapted for releasably attaching said syringe to said housing in sliding relationship.

11. The module of claim 1, wherein said detector module is contained within said housing.

12. The module of claim 1, wherein said storage device is contained within said housing.

13. A method of using a scanner module for monitoring drug delivery to an injection port, said scanner module including a detector module and a storage device for storing information received from said detector module; said method comprising positioning a scanner module adjacent an injection port; releasably securing a syringe loaded with a drug to be administered to said scanner module, said syringe having first information provided in association therewith; identifying said first information by said detector module; releasably securing a

port cradle coupled to an injection port to said scanner module, said port cradle having second information provided in association therewith; identifying said second information by said detector module; determining the quantity of drug being delivered by said syringe to said injection port by said detector module; and storing in said storage device said first and second information and the delivered quantity of said drug.

14. The method of claim 13, further including transmitting said first and second information and delivered quantity of said drug to a device other than said storage device.

15. The method of claim 13, wherein said port cradle includes a flange extending therefrom and said scanner module includes a slotted opening for slidably receiving said flange, wherein said identifying said second information comprises inserting said flange into said slotted opening and moving said port cradle into operative association with said detector module.

16. The method of claim 15, wherein said second information is provided on said flange.

17. The method of claim 13, wherein said syringe includes a plunger for delivering said drug therefrom and wherein said determining said quantity of said drug comprises determining the distance of movement of said plunger within said syringe during drug delivery.

18. The method of claim 17, wherein said determining said quantity of said drug occurs in real time.

19. The method of claim 13, further including providing a drug container cradle attached to a drug container, said drug container cradle having third information provided in association therewith, said drug container cradle constructed to be releasably attached to said scanner module in operative

association with said detector module, and displacing said drug container cradle relative to said detector module to identify said third information by said detector module, and inserting said syringe into said drug container for filling said syringe with said drug.

20. The method of claim 13, further including monitoring drug delivery to a plurality of patients using the same scanner module.

21. A method of using a scanner module having a detector and a storage module for delivering and monitoring drugs to an injection port connected to a patient, said method comprising delivering a drug loaded syringe to said injection port, determining information relative to the drug contained in the syringe by electronically scanning machine readable information associated with said syringe using the detector module, determining information relative to the patient by electronically scanning machine readable information associated with said injection port using the detector module, pushing a plunger of the syringe to deliver a quantity of the drug through the port, monitoring movement of the plunger while delivering the drug for determining the volume of the drug delivered from the syringe using the detector module, and storing the patient information and the quantity of the drug delivered from said syringe within the storage module.

22. The method of claim 21, further including transmitting the stored patient information and the quantity of the drug delivered to a remote storage device.

23. The method of claim 21, further including attaching said injection port to a port cradle having a flange to which said machine readable information is attached, said electronically scanning said machine readable information comprising moving said flange past the detector module.

24. The method of claim 21, further including attaching said syringe to a syringe cradle having a flange to which said machine readable information is attached, said electronically scanning said machine readable information comprising moving said flange past the detector module.

25. A method of using a scanner module having a detector module and a storage module for delivering drugs to an injection port connected to a patient, said method comprising delivering a drug loaded syringe to said injection port, determining information relative to the drug contained in the syringe by electronically scanning machine readable information associated with said syringe using the detector module, determining information relative to the patient by electronically scanning machine readable information associated with said injection port using the detector module, pushing a plunger of the syringe to deliver a quantity of the drug through the injection port, and storing the information obtained by scanning said machine readable information within the storage device.

26. The method of claim 25, further including coupling said injection port to a port cradle having a flange to which said machine readable information is attached, said electronically scanning said machine readable information comprising moving said flange past the detector module.

27. The method of claim 25, further including coupling said syringe to a syringe cradle having a flange to which said machine readable information is attached, said electronically scanning said machine readable information comprising moving said flange past the detector module.